CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC ABSTRACT

Nameof Work: Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials	46.98 Cum	1	1	Pass
2	Steel	6.35 Tonne	1	1	Pass
3	M20	105.84 Cum	6	6	Pass
4	M10	2.7 Cum	1	1	Pass
5	Precast Slab 100mm	302.4 Sqm	1	1	Pass
6	Precast Slab 250mm	9.00 Sqm	1	1	Pass
7	DLC	75.6 Cum	1	1	Pass
8	M30	113.4 Cum	6	6	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 08.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	08.03.2023	8.149	502.7	22.34
2	01.03.2023	08.03.2023	8.153	506.5	22.51
3	01.03.2023	08.03.2023	8.162	503.9	22.40

Note:

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

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Compressive Strength as on : 7th day

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1	01.03.2023	08.03.2023	8.149	502.7	22.34
2	01.03.2023	08.03.2023	8.153	506.5	22.51
3	01.03.2023	08.03.2023	8.162	503.9	22.40

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	08.03.2023	8.129	496.7	22.08
2	01.03.2023	08.03.2023	8.132	503.6	22.38
3	01.03.2023	08.03.2023	8.139	508.1	22.58

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Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	08.03.2023	8.136	501.3	22.28
2	01.03.2023	08.03.2023	8.143	504.3	22.41
3	01.03.2023	08.03.2023	8.149	508.6	22.60

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Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

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Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	08.03.2023	8.141	501.3	22.28
2	01.03.2023	08.03.2023	8.148	502.9	22.35
3	01.03.2023	08.03.2023	8.157	505.4	22.46

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**
Agency	**: Sri.P Vishwanath, Contractor, Bangalore.**
Name of the work	: Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	08.03.2023	8.132	499.7	22.21
2	01.03.2023	08.03.2023	8.137	504.7	22.43
3	01.03.2023	08.03.2023	8.147	507.8	22.57

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 07.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2023	07.03.2023	8.168	339.6	15.09
2	28.02.2023	07.03.2023	8.176	345.2	15.34
3	28.02.2023	07.03.2023	8.152	326.8	14.52

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Date: 07.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2023	07.03.2023	8.189	358.9	15.95
2	28.02.2023	07.03.2023	8.194	342.6	15.23
3	28.02.2023	07.03.2023	8.165	324.9	14.44

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2023	07.03.2023	8.194	339.3	15.08
2	28.02.2023	07.03.2023	8.163	356.9	15.86
3	28.02.2023	07.03.2023	8.125	362.4	16.11

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 06.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	06.03.2023	8.174	345.2	15.34
2	27.02.2023	06.03.2023	8.189	321.9	14.31
3	27.02.2023	06.03.2023	8.168	352.4	15.66

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Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	06.03.2023	8.188	326.3	14.50
2	27.02.2023	06.03.2023	8.162	348.5	15.49
3	27.02.2023	06.03.2023	8.176	356.9	15.86

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Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	06.03.2023	8.146	336.3	14.95
2	27.02.2023	06.03.2023	8.152	345.8	15.37
3	27.02.2023	06.03.2023	8.139	329.1	14.63

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 04.03.2023

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**
Contractor	**: Sri.P Vishwanath, Contractor, Bangalore.**
Name of the work	Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2023	04.03.2023	8.124	173.8	7.72
2	25.02.2023	04.03.2023	8.131	177.9	7.91
3	25.02.2023	04.03.2023	8.129	179.1	7.96

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QC ABSTRACT

Nameof Work: Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials	46.98 Cum	1	1	Pass
2	Steel	6.35 Tonne	1	1	Pass
3	M10	105.84 Cum	6	6	Pass
4	M20	2.7 Cum	1	1	Pass
5	Precast Slab 100mm	302.4 Sqm	1	1	Pass
6	Precast Slab 250mm	9.00 Sqm	1	1	Pass
7	DLC	75.6 Cum	1	1	Pass
8	M30	113.4 Cum	6	6	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/PV/09/2022-23

Date:19.02.2023

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division,BBMP,Bangalore

Agency : **Sri.P Vishwanath,** Contractor, Bangalore.

Name of Work Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: :Jan-2023

Date of Testing 17.02.2023 to 19.02.2023

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.00%	-

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Assistant Executive Engineer
Kodigehalli Sub Division
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Job No.: CACE/BBMP/PV/09/2022-23 Date 19.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of Work Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Date of Testing 19.02.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	114	11.40	19.60	80.4	75-100
1.18	146	14.60	34.20	65.8	55-90
600 Micron	219	21.90	56.10	43.9	35-59
300 Micron	178	17.80	73.90	26.1	8-30
150 Micron	185	18.50	92.40	7.6	0-10

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/PV/09/2022-23 Date 19.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of Work Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Date of Testing 19.02.2023

Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	26	2.60	2.60	97.4	90-100
1.18	31	3.10	5.70	94.3	70-100
600 Micron	76	7.60	13.30	86.7	40-100
300 Micron	224	22.40	35.70	64.3	5-70
150 Micron	539	53.90	89.60	10.4	0-15

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Authorised Signatory

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Job No.: CACE/BBMP/PV/09/2022-23 Date 19.02.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of Work Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Date of Testing 19.02.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	228	4.6	4.6	95.4	95-100
10	2896	57.9	62.5	37.5	25-55
4.75	1686	33.7	96.2	3.8	0-10

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of Work Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Date of Testing 19.02.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	218	1.45	1.45	98.55	95-100
20	8252	55.01	56.47	43.53	30-70
10	3218	21.45	77.92	22.08	10-35
4.75	2896	19.31	97.23	2.77	0-5

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Job No.: CACE/BBMP/PV/09/2022-23

Date 19.02.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of Work Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Steel Dia/Length : 10mm,12mm,8mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 19.02.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.398	528	615	1.16	15
2	TMT	10	0.619	542	629	1.16	22
3	TMT	12	0.889	536	631	1.18	25

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 20.03.2023

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **: Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Contractor : **: Sri.P Vishwanath, Contractor, Bangalore.**

Name of Work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

No.of Sample Tested : 03

Date of Testing : 20.03.2023

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	1.697	10670.06	1.62	0.959	24.5	12.48	13.48	12.92	16.15
2	50.00	82.00	1.735	10775.95	1.64	0.961	25.3	12.89	13.92	13.37	16.72
3	50.00	83.00	1.715	10523.40	1.66	0.963	26.1	13.29	14.36	13.83	17.29

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/PV/09/2022-23

Date: 21.03.2023

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**
Contractor	:	**: Sri.P Vishwanath, Contractor, Bangalore.**
Name of Work	:	Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	21.03.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15} ✓

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	115.00	1.698	2320.95	1.28	0.922	85.70	13.47	14.55	13.41	16.77
2	90.00	118.00	1.789	2383.16	1.31	0.926	86.20	13.55	14.63	13.55	16.93
3	90.00	117.00	1.765	2371.29	1.30	0.924	86.90	13.66	14.75	13.64	17.05

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Job No.: CACE/BBMP/PV/09/2022-23 **Date** : 27.02.2023

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

Name of Work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Date of Testing : 25.02.2023 to 27.02.2023

Material : Dry Lean Concrete

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	1092	1092	10.9	89.1	80-100
9.5	2471	3563	35.6	64.4	55-75
4.75	1514	5077	50.8	49.2	35-60
0.600	3278	8355	83.6	16.5	10-35
0.075	967	9322	93.2	6.8	0-8

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 25.03.2023

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer, Kodigehalli Sub Division,BBMP,Bangalore**
Contractor	**: Sri.P Vishwanath, Contractor, Bangalore.**
Name of the work	Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2023	25.03.2023	8.136	268.7	11.94
2	25.02.2023	25.03.2023	8.144	272.2	12.10
3	25.02.2023	25.03.2023	8.151	278.5	12.38

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Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	27.03.2023	8.148	515.2	22.90
2	27.02.2023	27.03.2023	8.192	488.9	21.73
3	27.02.2023	27.03.2023	8.164	496.2	22.05

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	27.03.2023	8.198	511.2	22.72
2	27.02.2023	27.03.2023	8.184	532.8	23.68
3	27.02.2023	27.03.2023	8.192	489.6	21.76

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	27.03.2023	8.180	512.3	22.77
2	27.02.2023	27.03.2023	8.165	508.6	22.60
3	27.02.2023	27.03.2023	8.146	498.6	22.16

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/PV/09/2022-23

Date: 28.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore

Agency :Sri.P Vishwanath, Contractor, Bangalore.

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2023	28.03.2023	8.199	500.8	22.26
2	28.02.2023	28.03.2023	8.146	516.4	22.95
3	28.02.2023	28.03.2023	8.158	489.6	21.76

Note:

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Authorised Signatory

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Kodigehalli Sub Division
BBMP, Bangalore

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Date: 28.03.2023

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Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2023	28.03.2023	8.188	512.3	22.77
2	28.02.2023	28.03.2023	8.169	494.6	21.98
3	28.02.2023	28.03.2023	8.146	505.2	22.45

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Job No.: CACE/BBMP/PV/09/2022-23 Date: 28.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency :**Sri.P Vishwanath, Contractor, Bangalore.**

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2023	28.03.2023	8.184	516.3	22.95
2	28.02.2023	28.03.2023	8.166	524.6	23.32
3	28.02.2023	28.03.2023	8.158	498.3	22.15

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Client :Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore

Agency : Sri.P Vishwanath, Contractor, Bangalore.

Name of the work : Improvements to Roads ,Drains and Construction of Culverts at Daasarahalli village in ward no.09,BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	29.03.2023	8.159	709.7	31.54
2	01.03.2023	29.03.2023	8.167	711.5	31.62
3	01.03.2023	29.03.2023	8.174	717.8	31.90

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	29.03.2023	8.172	706.1	31.38
2	01.03.2023	29.03.2023	8.183	708.4	31.48
3	01.03.2023	29.03.2023	8.191	712.6	31.67

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Client :**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore**

Agency : **Sri.P Vishwanath, Contractor, Bangalore.**

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	29.03.2023	8.182	705.3	31.35
2	01.03.2023	29.03.2023	8.187	708.7	31.50
3	01.03.2023	29.03.2023	8.193	714.2	31.74

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	29.03.2023	8.144	705.4	31.35
2	01.03.2023	29.03.2023	8.151	707.2	31.43
3	01.03.2023	29.03.2023	8.163	709.3	31.52

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Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	29.03.2023	8.173	708.1	31.47
2	01.03.2023	29.03.2023	8.178	714.2	31.74
3	01.03.2023	29.03.2023	8.186	717.1	31.87

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Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2023	29.03.2023	8.179	710.5	31.58
2	01.03.2023	29.03.2023	8.186	712.3	31.66
3	01.03.2023	29.03.2023	8.195	718.6	31.94

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